

December 3, 2019

Alan Sundquist
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Location: Beaver St., Waltham, MA
Client Job Number:
Project Number: 1830
Laboratory Work Order Number: 19K1403

Enclosed are results of analyses for samples received by the laboratory on November 22, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Michelle M. Koch
Project Manager

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CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760
ATTN: Alan Sundquist

REPORT DATE: 12/3/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1830

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19K1403

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Beaver St., Waltham, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HB-1	19K1403-01	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-5	19K1403-02	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-6	19K1403-03	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-7	19K1403-04	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-8	19K1403-05	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-9	19K1403-06	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-10	19K1403-07	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-11	19K1403-08	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-14	19K1403-09	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	
HB-15	19K1403-10	Soil		SM 2540G SW-846 6010D SW-846 7471B SW-846 8270D-E	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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SW-846 6010D

Qualifications:**L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Arsenic**

B247130-BSD1

Vanadium

B247130-BSD1

SW-846 8270D-E

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Benzoic Acid**

19K1403-01[HB-1], 19K1403-02[HB-5], 19K1403-03[HB-6], 19K1403-04[HB-7], 19K1403-05[HB-8], 19K1403-06[HB-9], 19K1403-07[HB-10], 19K1403-08[HB-11], 19K1403-09[HB-14], 19K1403-10[HB-15], B246869-BLK1, B246869-BS1, B246869-BSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Benzidine**

19K1403-02[HB-5], B246869-MS1, B246869-MSD1

Benzoic Acid

19K1403-02[HB-5], B246869-MS1, B246869-MSD1

Pyridine

19K1403-02[HB-5], B246869-MS1, B246869-MSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Benzidine**

19K1403-01[HB-1], 19K1403-02[HB-5], 19K1403-03[HB-6], 19K1403-04[HB-7], 19K1403-05[HB-8], 19K1403-06[HB-9], 19K1403-07[HB-10], 19K1403-08[HB-11], 19K1403-09[HB-14], 19K1403-10[HB-15], B246869-BLK1, B246869-BS1, B246869-BSD1, B246869-MS1, B246869-MSD1, S043199-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

19K1403-01[HB-1], 19K1403-02[HB-5], 19K1403-03[HB-6], 19K1403-04[HB-7], 19K1403-05[HB-8], 19K1403-06[HB-9], 19K1403-07[HB-10], 19K1403-08[HB-11], 19K1403-09[HB-14], 19K1403-10[HB-15], B246869-BLK1, B246869-BS1, B246869-BSD1, B246869-MS1, B246869-MSD1, S043199-CCV1

Hexachlorocyclopentadiene

19K1403-01[HB-1], 19K1403-02[HB-5], 19K1403-03[HB-6], 19K1403-04[HB-7], 19K1403-05[HB-8], 19K1403-06[HB-9], 19K1403-07[HB-10], 19K1403-08[HB-11], 19K1403-09[HB-14], 19K1403-10[HB-15], B246869-BLK1, B246869-BS1, B246869-BSD1, B246869-MS1, B246869-MSD1, S043199-CCV1

Pentachlorophenol

19K1403-01[HB-1], 19K1403-02[HB-5], 19K1403-03[HB-6], 19K1403-04[HB-7], 19K1403-05[HB-8], 19K1403-06[HB-9], 19K1403-07[HB-10], 19K1403-08[HB-11], 19K1403-09[HB-14], 19K1403-10[HB-15], B246869-BLK1, B246869-BS1, B246869-BSD1, B246869-MS1, B246869-MSD1, S043199-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

19K1403-01[HB-1], 19K1403-02[HB-5], 19K1403-03[HB-6], 19K1403-04[HB-7], 19K1403-05[HB-8], 19K1403-06[HB-9], 19K1403-07[HB-10], 19K1403-08[HB-11], 19K1403-09[HB-14], 19K1403-10[HB-15], B246869-BLK1, B246869-BS1, B246869-BSD1, B246869-MS1, B246869-MSD1, S043199-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Benzidine**

19K1403-01[HB-1], 19K1403-02[HB-5], 19K1403-03[HB-6], 19K1403-04[HB-7], 19K1403-05[HB-8], 19K1403-06[HB-9], 19K1403-07[HB-10], 19K1403-08[HB-11], 19K1403-09[HB-14], 19K1403-10[HB-15], B246869-BLK1, B246869-BS1, B246869-BSD1, B246869-MS1, B246869-MSD1, S043199-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-1

Sampled: 11/19/2019 10:00

Sample ID: 19K1403-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Acenaphthylene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Acetophenone	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Aniline	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Anthracene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Benzidine	ND	1.0	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Benzo(a)anthracene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Benzo(a)pyrene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Benzo(b)fluoranthene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Benzo(g,h,i)perylene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Benzo(k)fluoranthene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Benzoic Acid	ND	1.5	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Bis(2-chloroethoxy)methane	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Bis(2-chloroethyl)ether	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Bis(2-chloroisopropyl)ether	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
4-Bromophenylphenylether	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Butylbenzylphthalate	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Carbazole	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
4-Chloroaniline	ND	1.0	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
4-Chloro-3-methylphenol	ND	1.0	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2-Chloronaphthalene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2-Chlorophenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
4-Chlorophenylphenylether	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Chrysene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Dibenz(a,h)anthracene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Dibenzofuran	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Di-n-butylphthalate	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
1,2-Dichlorobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
1,3-Dichlorobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
1,4-Dichlorobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
3,3-Dichlorobenzidine	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2,4-Dichlorophenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Diethylphthalate	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2,4-Dimethylphenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Dimethylphthalate	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
4,6-Dinitro-2-methylphenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2,4-Dinitrophenol	ND	1.0	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2,4-Dinitrotoluene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2,6-Dinitrotoluene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Di-n-octylphthalate	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2,2-Diphenylhydrazine/Azobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Fluoranthene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Fluorene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-1

Sampled: 11/19/2019 10:00

Sample ID: 19K1403-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Hexachlorobutadiene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Hexachlorocyclopentadiene	ND	0.51	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Hexachloroethane	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Isophorone	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
1-Methylnaphthalene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2-Methylnaphthalene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2-Methylphenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
3/4-Methylphenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Naphthalene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2-Nitroaniline	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
3-Nitroaniline	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
4-Nitroaniline	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Nitrobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2-Nitrophenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
4-Nitrophenol	ND	1.0	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
N-Nitrosodimethylamine	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
N-Nitrosodi-n-propylamine	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Pentachloronitrobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Pentachlorophenol	ND	0.51	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Phenanthrene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Phenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Pyrene	ND	0.26	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Pyridine	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
1,2,4-Trichlorobenzene	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2,4,5-Trichlorophenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
2,4,6-Trichlorophenol	ND	0.51	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:30	KLB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	75.9		30-130				11/27/19 18:30		
Phenol-d6	75.9		30-130				11/27/19 18:30		
Nitrobenzene-d5	72.6		30-130				11/27/19 18:30		
2-Fluorobiphenyl	71.9		30-130				11/27/19 18:30		
2,4,6-Tribromophenol	79.2		30-130				11/27/19 18:30		
p-Terphenyl-d14	78.4		30-130				11/27/19 18:30		

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-1

Sampled: 11/19/2019 10:00

Sample ID: 19K1403-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Arsenic	3.2	2.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Barium	47	2.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Beryllium	0.57	0.25	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Chromium	11	0.50	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Lead	73	0.74	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Mercury	0.15	0.036	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:38	AJL
Nickel	9.0	0.50	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Selenium	ND	5.0	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:10	TBC
Silver	ND	0.50	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:10	TBC
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc
Vanadium	34	0.99	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 17:42	TBC
Zinc	44	0.99	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	tbc

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-1

Sampled: 11/19/2019 10:00

Sample ID: 19K1403-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.3		% Wt	1		SM 2540G	11/25/19	11/26/19 10:34	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-5

Sampled: 11/19/2019 12:00

Sample ID: 19K1403-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Acetophenone	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Aniline	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Benzidine	ND	0.82	mg/Kg dry	1	MS-09, V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Benzoic Acid	ND	1.2	mg/Kg dry	1	L-04, MS-09	SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
4-Chloroaniline	ND	0.82	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
4-Chloro-3-methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
1,2-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
1,3-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
1,4-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
1,2-Diphenylhydrazine/Azobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-5

Sampled: 11/19/2019 12:00

Sample ID: 19K1403-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Hexachlorocyclopentadiene	ND	0.42	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
1-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
N-Nitrosodimethylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Pentachlorophenol	ND	0.42	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
Pyridine	ND	0.42	mg/Kg dry	1	MS-09	SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 18:53	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	75.4	30-130	11/27/19 18:53
Phenol-d6	76.7	30-130	11/27/19 18:53
Nitrobenzene-d5	74.3	30-130	11/27/19 18:53
2-Fluorobiphenyl	77.7	30-130	11/27/19 18:53
2,4,6-Tribromophenol	84.6	30-130	11/27/19 18:53
p-Terphenyl-d14	98.9	30-130	11/27/19 18:53

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-5

Sampled: 11/19/2019 12:00

Sample ID: 19K1403-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	32	2.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Arsenic	11	2.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Barium	450	2.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Beryllium	0.28	0.21	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Cadmium	29	0.21	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Chromium	73	0.41	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Lead	2700	0.62	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Mercury	0.90	0.031	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:40	AJL
Nickel	170	0.41	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:16	TBC
Silver	130	0.41	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:16	TBC
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	tbc
Vanadium	27	0.83	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 17:49	TBC
Zinc	5100	4.1	mg/Kg dry	5		SW-846 6010D	11/26/19	12/3/19 12:21	MJH

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-5

Sampled: 11/19/2019 12:00

Sample ID: 19K1403-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	11/25/19	11/26/19 10:35	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-6

Sampled: 11/20/2019 08:30

Sample ID: 19K1403-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Acenaphthylene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Acetophenone	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Aniline	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Anthracene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Benzidine	ND	1.2	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Benzo(a)anthracene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Benzo(a)pyrene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Benzo(b)fluoranthene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Benzo(g,h,i)perylene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Benzo(k)fluoranthene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Benzoic Acid	ND	1.8	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Bis(2-chloroethoxy)methane	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Bis(2-chloroethyl)ether	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Bis(2-chloroisopropyl)ether	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
4-Bromophenylphenylether	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Butylbenzylphthalate	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Carbazole	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
4-Chloroaniline	ND	1.2	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
4-Chloro-3-methylphenol	ND	1.2	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2-Chloronaphthalene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2-Chlorophenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
4-Chlorophenylphenylether	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Chrysene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Dibenz(a,h)anthracene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Dibenzofuran	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Di-n-butylphthalate	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
1,2-Dichlorobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
1,3-Dichlorobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
1,4-Dichlorobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
3,3-Dichlorobenzidine	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2,4-Dichlorophenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Diethylphthalate	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2,4-Dimethylphenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Dimethylphthalate	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
4,6-Dinitro-2-methylphenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2,4-Dinitrophenol	ND	1.2	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2,4-Dinitrotoluene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2,6-Dinitrotoluene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Di-n-octylphthalate	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
1,2-Diphenylhydrazine/Azobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Fluoranthene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Fluorene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-6

Sampled: 11/20/2019 08:30

Sample ID: 19K1403-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Hexachlorobutadiene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Hexachlorocyclopentadiene	ND	0.60	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Hexachloroethane	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Indeno(1,2,3-cd)pyrene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Isophorone	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
1-Methylnaphthalene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2-Methylnaphthalene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2-Methylphenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
3/4-Methylphenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Naphthalene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2-Nitroaniline	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
3-Nitroaniline	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
4-Nitroaniline	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Nitrobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2-Nitrophenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
4-Nitrophenol	ND	1.2	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
-Nitrosodimethylamine	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
N-Nitrosodi-n-propylamine	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Pentachloronitrobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Pentachlorophenol	ND	0.60	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Phenanthrene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Phenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Pyrene	ND	0.30	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Pyridine	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
1,2,4-Trichlorobenzene	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2,4,5-Trichlorophenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
2,4,6-Trichlorophenol	ND	0.60	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:15	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		76.2	30-130					11/27/19 19:15	
Phenol-d6		77.6	30-130					11/27/19 19:15	
Nitrobenzene-d5		71.5	30-130					11/27/19 19:15	
2-Fluorobiphenyl		71.6	30-130					11/27/19 19:15	
2,4,6-Tribromophenol		77.7	30-130					11/27/19 19:15	
p-Terphenyl-d14		80.1	30-130					11/27/19 19:15	

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-6

Sampled: 11/20/2019 08:30

Sample ID: 19K1403-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Arsenic	5.3	2.9	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Barium	45	2.9	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Beryllium	0.43	0.29	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Chromium	14	0.58	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Lead	170	0.87	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Mercury	0.21	0.043	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:42	AJL
Nickel	22	0.58	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:23	TBC
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:23	TBC
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc
Vanadium	41	1.2	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:09	TBC
Zinc	63	1.2	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	tbc

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-6

Sampled: 11/20/2019 08:30

Sample ID: 19K1403-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.9		% Wt	1		SM 2540G	11/25/19	11/26/19 10:36	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-7

Sampled: 11/20/2019 09:00

Sample ID: 19K1403-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Acenaphthylene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Acetophenone	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Aniline	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Anthracene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Benzidine	ND	1.2	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Benzo(a)anthracene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Benzo(a)pyrene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Benzo(b)fluoranthene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Benzo(g,h,i)perylene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Benzo(k)fluoranthene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Benzoic Acid	ND	1.9	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Bis(2-chloroethoxy)methane	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Bis(2-chloroethyl)ether	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Bis(2-chloroisopropyl)ether	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
4-Bromophenylphenylether	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Butylbenzylphthalate	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Carbazole	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
4-Chloroaniline	ND	1.2	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
4-Chloro-3-methylphenol	ND	1.2	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2-Chloronaphthalene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2-Chlorophenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
4-Chlorophenylphenylether	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Chrysene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Dibenz(a,h)anthracene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Dibenzofuran	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Di-n-butylphthalate	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
1,2-Dichlorobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
1,3-Dichlorobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
1,4-Dichlorobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
3,3-Dichlorobenzidine	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2,4-Dichlorophenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Diethylphthalate	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2,4-Dimethylphenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Dimethylphthalate	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
4,6-Dinitro-2-methylphenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2,4-Dinitrophenol	ND	1.2	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2,4-Dinitrotoluene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2,6-Dinitrotoluene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Di-n-octylphthalate	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2-Diphenylhydrazine/Azobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Fluoranthene	0.39	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Fluorene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-7

Sampled: 11/20/2019 09:00

Sample ID: 19K1403-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Hexachlorobutadiene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Hexachlorocyclopentadiene	ND	0.64	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Hexachloroethane	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Indeno(1,2,3-cd)pyrene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Isophorone	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
1-Methylnaphthalene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2-Methylnaphthalene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2-Methylphenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
3/4-Methylphenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Naphthalene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2-Nitroaniline	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
3-Nitroaniline	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
4-Nitroaniline	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Nitrobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2-Nitrophenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
4-Nitrophenol	ND	1.2	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
N-Nitrosodimethylamine	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
N-Nitrosodi-n-propylamine	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Pentachloronitrobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Pentachlorophenol	ND	0.64	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Phenanthrene	ND	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Phenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Pyrene	0.43	0.32	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Pyridine	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
1,2,4-Trichlorobenzene	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2,4,5-Trichlorophenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
2,4,6-Trichlorophenol	ND	0.64	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 19:38	KLB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	53.6	30-130						11/27/19 19:38	
Phenol-d6	57.7	30-130						11/27/19 19:38	
Nitrobenzene-d5	51.5	30-130						11/27/19 19:38	
2-Fluorobiphenyl	56.8	30-130						11/27/19 19:38	
2,4,6-Tribromophenol	61.8	30-130						11/27/19 19:38	
p-Terphenyl-d14	68.6	30-130						11/27/19 19:38	

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-7

Sampled: 11/20/2019 09:00

Sample ID: 19K1403-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Arsenic	9.1	3.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Barium	47	3.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Beryllium	0.47	0.31	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Cadmium	ND	0.31	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Chromium	15	0.62	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Lead	180	0.93	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Mercury	0.30	0.046	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:43	AJL
Nickel	22	0.62	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Selenium	ND	6.2	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:29	TBC
Silver	ND	0.62	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:29	TBC
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc
Vanadium	47	1.2	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:15	TBC
Zinc	64	1.2	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	tbc

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-7

Sampled: 11/20/2019 09:00

Sample ID: 19K1403-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	53.1		% Wt	1		SM 2540G	11/25/19	11/26/19 10:36	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-8

Sampled: 11/20/2019 09:30

Sample ID: 19K1403-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Acenaphthylene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Acetophenone	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Aniline	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Anthracene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Benzidine	ND	1.4	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Benzo(a)anthracene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Benzo(a)pyrene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Benzo(b)fluoranthene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Benzo(g,h,i)perylene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Benzo(k)fluoranthene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Benzoic Acid	ND	2.1	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Bis(2-chloroethoxy)methane	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Bis(2-chloroethyl)ether	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Bis(2-chloroisopropyl)ether	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
4-Bromophenylphenylether	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Butylbenzylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Carbazole	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
4-Chloroaniline	ND	1.4	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
4-Chloro-3-methylphenol	ND	1.4	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2-Chloronaphthalene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2-Chlorophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
4-Chlorophenylphenylether	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Chrysene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Dibenz(a,h)anthracene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Dibenzofuran	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Di-n-butylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
1,2-Dichlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
1,3-Dichlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
1,4-Dichlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
3,3-Dichlorobenzidine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2,4-Dichlorophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Diethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2,4-Dimethylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Dimethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
4,6-Dinitro-2-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2,4-Dinitrophenol	ND	1.4	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2,4-Dinitrotoluene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2,6-Dinitrotoluene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Di-n-octylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2-Diphenylhydrazine/Azobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Fluoranthene	0.43	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Fluorene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-8

Sampled: 11/20/2019 09:30

Sample ID: 19K1403-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Hexachlorobutadiene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Hexachlorocyclopentadiene	ND	0.73	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Hexachloroethane	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Indeno(1,2,3-cd)pyrene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Isophorone	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
1-Methylnaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2-Methylnaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2-Methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
3/4-Methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Naphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2-Nitroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
3-Nitroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
4-Nitroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Nitrobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
4-Nitrophenol	ND	1.4	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
-Nitrosodimethylamine	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
N-Nitrosodi-n-propylamine	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Pentachloronitrobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Pentachlorophenol	ND	0.73	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Phenanthrene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Phenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Pyrene	0.48	0.36	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Pyridine	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
1,2,4-Trichlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2,4,5-Trichlorophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
2,4,6-Trichlorophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:01	KLB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	68.8	30-130							
Phenol-d6	71.0	30-130							
Nitrobenzene-d5	66.6	30-130							
2-Fluorobiphenyl	68.4	30-130							
2,4,6-Tribromophenol	76.9	30-130							
p-Terphenyl-d14	84.1	30-130							

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-8

Sampled: 11/20/2019 09:30

Sample ID: 19K1403-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.6	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Arsenic	5.3	3.6	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Barium	51	3.6	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Beryllium	0.54	0.36	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Cadmium	ND	0.36	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Chromium	16	0.72	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Lead	160	1.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Mercury	0.22	0.057	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:45	AJL
Nickel	13	0.72	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Selenium	ND	7.2	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:35	TBC
Silver	ND	0.72	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:35	TBC
Thallium	ND	3.6	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc
Vanadium	49	1.4	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:22	TBC
Zinc	78	1.4	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	tbc

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-8

Sampled: 11/20/2019 09:30

Sample ID: 19K1403-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	45.7		% Wt	1		SM 2540G	11/25/19	11/26/19 10:36	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-9

Sampled: 11/20/2019 10:00

Sample ID: 19K1403-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Acenaphthylene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Acetophenone	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Aniline	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Anthracene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Benzidine	ND	1.5	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Benzo(a)anthracene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Benzo(a)pyrene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Benzo(b)fluoranthene	0.43	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Benzo(g,h,i)perylene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Benzo(k)fluoranthene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Benzoic Acid	ND	2.3	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Bis(2-chlorooctoxy)methane	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Bis(2-chloroethyl)ether	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Bis(2-chloroisopropyl)ether	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
4-Bromophenylphenylether	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Butylbenzylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Carbazole	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
4-Chloroaniline	ND	1.5	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
4-Chloro-3-methylphenol	ND	1.5	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2-Chloronaphthalene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2-Chlorophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
4-Chlorophenylphenylether	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Chrysene	0.41	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Dibenz(a,h)anthracene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Dibenzofuran	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Di-n-butylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
1,2-Dichlorobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
1,3-Dichlorobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
1,4-Dichlorobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
3,3-Dichlorobenzidine	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2,4-Dichlorophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Diethylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2,4-Dimethylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Dimethylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
4,6-Dinitro-2-methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2,4-Dinitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2,4-Dinitrotoluene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2,6-Dinitrotoluene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Di-n-octylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2-Diphenylhydrazine/Azobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Fluoranthene	0.68	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Fluorene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-9

Sampled: 11/20/2019 10:00

Sample ID: 19K1403-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Hexachlorobutadiene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Hexachlorocyclopentadiene	ND	0.79	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Hexachloroethane	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Indeno(1,2,3-cd)pyrene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Isophorone	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
1-Methylnaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2-Methylnaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2-Methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
3/4-Methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Naphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2-Nitroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
3-Nitroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
4-Nitroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Nitrobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
4-Nitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
N-Nitrosodimethylamine	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
N-Nitrosodi-n-propylamine	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Pentachloronitrobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Pentachlorophenol	ND	0.79	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Phenanthrene	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Phenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Pyrene	0.74	0.39	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Pyridine	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
1,2,4-Trichlorobenzene	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2,4,5-Trichlorophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
2,4,6-Trichlorophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:23	KLB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	63.6	30-130						11/27/19 20:23	
Phenol-d6	65.6	30-130						11/27/19 20:23	
Nitrobenzene-d5	60.8	30-130						11/27/19 20:23	
2-Fluorobiphenyl	61.6	30-130						11/27/19 20:23	
2,4,6-Tribromophenol	67.2	30-130						11/27/19 20:23	
p-Terphenyl-d14	73.7	30-130						11/27/19 20:23	

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-9

Sampled: 11/20/2019 10:00

Sample ID: 19K1403-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.8	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Arsenic	7.0	3.8	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Barium	54	3.8	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Beryllium	0.41	0.38	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Cadmium	ND	0.38	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Chromium	16	0.76	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Lead	200	1.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Mercury	0.22	0.059	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:46	AJL
Nickel	18	0.76	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Selenium	ND	7.6	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:42	TBC
Silver	ND	0.76	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:42	TBC
Thallium	ND	3.8	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc
Vanadium	42	1.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:28	TBC
Zinc	140	1.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:59	tbc

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-9

Sampled: 11/20/2019 10:00

Sample ID: 19K1403-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	42.7		% Wt	1		SM 2540G	11/25/19	11/26/19 10:37	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-10

Sampled: 11/20/2019 10:30

Sample ID: 19K1403-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Acetophenone	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Aniline	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Benzo(a)anthracene	ND	1.5	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Benzo(a)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Benzo(b)fluoranthene	0.39	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Benzoic Acid	ND	2.2	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Bis(2-chloroethoxy)methane	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Bis(2-chloroethyl)ether	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Bis(2-chloroisopropyl)ether	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
4-Bromophenylphenylether	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Butylbenzylphthalate	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Carbazole	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
4-Chloroaniline	ND	1.5	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
4-Chloro-3-methylphenol	ND	1.5	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2-Chloronaphthalene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2-Chlorophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
4-Chlorophenylphenylether	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Chrysene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Dibenzofuran	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Di-n-butylphthalate	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
1,2-Dichlorobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
1,3-Dichlorobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
1,4-Dichlorobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
3,3-Dichlorobenzidine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2,4-Dichlorophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Diethylphthalate	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2,4-Dimethylphenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Dimethylphthalate	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
4,6-Dinitro-2-methylphenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2,4-Dinitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2,4-Dinitrotoluene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2,6-Dinitrotoluene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Di-n-octylphthalate	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2-Diphenylhydrazine/Azobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Fluoranthene	0.60	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-10

Sampled: 11/20/2019 10:30

Sample ID: 19K1403-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Hexachlorobutadiene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Hexachlorocyclopentadiene	ND	0.75	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Hexachloroethane	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Isophorone	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
1-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2-Methylphenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
3/4-Methylphenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2-Nitroaniline	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
3-Nitroaniline	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
4-Nitroaniline	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Nitrobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
4-Nitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
N-Nitrosodimethylamine	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
N-Nitrosodi-n-propylamine	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Pentachloronitrobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Pentachlorophenol	ND	0.75	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Phenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Pyridine	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
1,2,4-Trichlorobenzene	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2,4,5-Trichlorophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
2,4,6-Trichlorophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 20:46	KLB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	63.2		30-130				11/27/19 20:46		
Phenol-d6	65.7		30-130				11/27/19 20:46		
Nitrobenzene-d5	61.6		30-130				11/27/19 20:46		
2-Fluorobiphenyl	67.0		30-130				11/27/19 20:46		
2,4,6-Tribromophenol	71.6		30-130				11/27/19 20:46		
p-Terphenyl-d14	85.4		30-130				11/27/19 20:46		

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-10

Sampled: 11/20/2019 10:30

Sample ID: 19K1403-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.8	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Arsenic	12	3.8	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Barium	50	3.8	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Beryllium	0.51	0.38	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Cadmium	0.41	0.38	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Chromium	16	0.77	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Lead	270	1.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Mercury	0.29	0.056	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:48	AJL
Nickel	19	0.77	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Selenium	ND	7.7	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:48	TBC
Silver	ND	0.77	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 0:48	TBC
Thallium	ND	3.8	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc
Vanadium	66	1.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:34	TBC
Zinc	110	1.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:04	tbc

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-10

Sampled: 11/20/2019 10:30

Sample ID: 19K1403-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	44.1		% Wt	1		SM 2540G	11/25/19	11/26/19 10:37	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-11

Sampled: 11/20/2019 11:00

Sample ID: 19K1403-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Acenaphthylene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Acetophenone	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Aniline	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Anthracene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Benzidine	ND	1.1	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Benzo(a)anthracene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Benzo(a)pyrene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Benzo(b)fluoranthene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Benzo(g,h,i)perylene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Benzo(k)fluoranthene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Benzoic Acid	ND	1.6	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Bis(2-chloroethoxy)methane	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Bis(2-chloroethyl)ether	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Bis(2-chloroisopropyl)ether	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
4-Bromophenylphenylether	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Butylbenzylphthalate	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Carbazole	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
4-Chloroaniline	ND	1.1	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
4-Chloro-3-methylphenol	ND	1.1	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2-Chloronaphthalene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2-Chlorophenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
4-Chlorophenylphenylether	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Chrysene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Dibenz(a,h)anthracene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Dibenzofuran	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Di-n-butylphthalate	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
1,2-Dichlorobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
1,3-Dichlorobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
1,4-Dichlorobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
3,3-Dichlorobenzidine	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2,4-Dichlorophenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Diethylphthalate	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2,4-Dimethylphenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Dimethylphthalate	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
4,6-Dinitro-2-methylphenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2,4-Dinitrophenol	ND	1.1	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2,4-Dinitrotoluene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2,6-Dinitrotoluene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Di-n-octylphthalate	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
1,2-Diphenylhydrazine/Azobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Fluoranthene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Fluorene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-11

Sampled: 11/20/2019 11:00

Sample ID: 19K1403-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Hexachlorobutadiene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Hexachlorocyclopentadiene	ND	0.56	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Hexachloroethane	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Indeno(1,2,3-cd)pyrene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Isophorone	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
1-Methylnaphthalene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2-Methylnaphthalene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2-Methylphenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
3/4-Methylphenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Naphthalene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2-Nitroaniline	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
3-Nitroaniline	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
4-Nitroaniline	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Nitrobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2-Nitrophenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
4-Nitrophenol	ND	1.1	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
N-Nitrosodimethylamine	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
N-Nitrosodi-n-propylamine	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Pentachloronitrobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Pentachlorophenol	ND	0.56	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Phenanthrene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Phenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Pyrene	ND	0.28	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Pyridine	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
1,2,4-Trichlorobenzene	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2,4,5-Trichlorophenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
2,4,6-Trichlorophenol	ND	0.56	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:09	KLB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	65.4	30-130						11/27/19 21:09	
Phenol-d6	68.3	30-130						11/27/19 21:09	
Nitrobenzene-d5	64.8	30-130						11/27/19 21:09	
2-Fluorobiphenyl	69.5	30-130						11/27/19 21:09	
2,4,6-Tribromophenol	74.5	30-130						11/27/19 21:09	
p-Terphenyl-d14	89.2	30-130						11/27/19 21:09	

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-11

Sampled: 11/20/2019 11:00

Sample ID: 19K1403-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Arsenic	4.9	2.7	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Barium	58	2.7	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Beryllium	0.53	0.27	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Chromium	14	0.55	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Lead	120	0.82	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Mercury	0.11	0.039	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:50	AJL
Nickel	10	0.55	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 1:12	TBC
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 1:12	TBC
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc
Vanadium	38	1.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:41	TBC
Zinc	59	1.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:10	tbc

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-11

Sampled: 11/20/2019 11:00

Sample ID: 19K1403-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	60.5		% Wt	1		SM 2540G	11/25/19	11/26/19 10:37	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-14

Sampled: 11/20/2019 12:00

Sample ID: 19K1403-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Acenaphthylene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Acetophenone	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Aniline	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Anthracene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Benzidine	ND	1.4	mg/Kg dry	1	V-04, V-05, V-35	SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Benzo(a)anthracene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Benzo(a)pyrene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Benzo(b)fluoranthene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Benzo(g,h,i)perylene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Benzo(k)fluoranthene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Benzoic Acid	ND	2.2	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Bis(2-chloroethoxy)methane	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Bis(2-chloroethyl)ether	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Bis(2-chloroisopropyl)ether	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
4-Bromophenylphenylether	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Butylbenzylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Carbazole	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
4-Chloroaniline	ND	1.4	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
4-Chloro-3-methylphenol	ND	1.4	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2-Chloronaphthalene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2-Chlorophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
4-Chlorophenylphenylether	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Chrysene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Dibenz(a,h)anthracene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Dibenzofuran	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Di-n-butylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
1,2-Dichlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
1,3-Dichlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
1,4-Dichlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
3,3-Dichlorobenzidine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2,4-Dichlorophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Diethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2,4-Dimethylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Dimethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
4,6-Dinitro-2-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2,4-Dinitrophenol	ND	1.4	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2,4-Dinitrotoluene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2,6-Dinitrotoluene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Di-n-octylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
1,2-Diphenylhydrazine/Azobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Fluoranthene	0.39	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Fluorene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-14

Sampled: 11/20/2019 12:00

Sample ID: 19K1403-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Hexachlorobutadiene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Hexachlorocyclopentadiene	ND	0.73	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Hexachloroethane	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Indeno(1,2,3-cd)pyrene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Isophorone	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
1-Methylnaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2-Methylnaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2-Methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
3/4-Methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Naphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2-Nitroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
3-Nitroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
4-Nitroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Nitrobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
4-Nitrophenol	ND	1.4	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
N-Nitrosodimethylamine	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
N-Nitrosodi-n-propylamine	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Pentachloronitrobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Pentachlorophenol	ND	0.73	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Phenanthrene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Phenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Pyrene	0.42	0.37	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Pyridine	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
1,2,4-Trichlorobenzene	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2,4,5-Trichlorophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
2,4,6-Trichlorophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:31	KLB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	69.8		30-130				11/27/19 21:31		
Phenol-d6	74.2		30-130				11/27/19 21:31		
Nitrobenzene-d5	69.4		30-130				11/27/19 21:31		
2-Fluorobiphenyl	68.2		30-130				11/27/19 21:31		
2,4,6-Tribromophenol	74.4		30-130				11/27/19 21:31		
p-Terphenyl-d14	75.2		30-130				11/27/19 21:31		

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-14

Sampled: 11/20/2019 12:00

Sample ID: 19K1403-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.7	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Arsenic	6.3	3.7	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Barium	54	3.7	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Beryllium	0.56	0.37	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Cadmium	ND	0.37	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Chromium	15	0.73	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Lead	150	1.1	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Mercury	0.23	0.054	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:51	AJL
Nickel	13	0.73	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Selenium	ND	7.3	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 1:18	TBC
Silver	ND	0.73	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 1:18	TBC
Thallium	ND	3.7	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc
Vanadium	54	1.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:47	TBC
Zinc	73	1.5	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:16	tbc



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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-14

Sampled: 11/20/2019 12:00

Sample ID: 19K1403-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	45.7		% Wt	1		SM 2540G	11/25/19	11/26/19 10:38	adb

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-15

Sampled: 11/20/2019 13:00

Sample ID: 19K1403-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Acetophenone	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Aniline	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Benzidine	ND	0.86	mg/Kg dry	1	V-35, V-04, V-05	SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Benzoic Acid	ND	1.3	mg/Kg dry	1	L-04	SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Bis(2-chlorooctoxy)methane	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Bis(2-chloroethyl)ether	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Bis(2-chloroisopropyl)ether	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
4-Bromophenylphenylether	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Butylbenzylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Carbazole	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
4-Chloroaniline	ND	0.86	mg/Kg dry	1	V-34	SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
4-Chloro-3-methylphenol	ND	0.86	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2-Chloronaphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2-Chlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
4-Chlorophenylphenylether	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Chrysene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Dibenzofuran	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Di-n-butylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
1,2-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
1,3-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
1,4-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2,4-Dichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Diethylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2,4-Dimethylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Dimethylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
4,6-Dinitro-2-methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2,4-Dinitrophenol	ND	0.86	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2,4-Dinitrotoluene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2,6-Dinitrotoluene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Di-n-octylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
..2-Diphenylhydrazine/Azobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-15

Sampled: 11/20/2019 13:00

Sample ID: 19K1403-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Hexachlorobutadiene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Hexachlorocyclopentadiene	ND	0.44	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Hexachloroethane	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Isophorone	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
1-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2-Methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
3/4-Methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2-Nitroaniline	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
3-Nitroaniline	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
4-Nitroaniline	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Nitrobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2-Nitrophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
4-Nitrophenol	ND	0.86	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
N-Nitrosodimethylamine	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
N-Nitrosodi-n-propylamine	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Pentachloronitrobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Pentachlorophenol	ND	0.44	mg/Kg dry	1	V-05	SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Phenanthrene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Phenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Pyridine	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
1,2,4-Trichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2,4,5-Trichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
2,4,6-Trichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D-E	11/24/19	11/27/19 21:54	KLB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	72.7	30-130							
Phenol-d6	77.1	30-130							
Nitrobenzene-d5	68.6	30-130							
2-Fluorobiphenyl	67.6	30-130							
2,4,6-Tribromophenol	78.9	30-130							
p-Terphenyl-d14	78.6	30-130							

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-15

Sampled: 11/20/2019 13:00

Sample ID: 19K1403-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.2	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Arsenic	3.8	2.2	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Barium	46	2.2	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Beryllium	0.38	0.22	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Cadmium	ND	0.22	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Chromium	11	0.44	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Lead	83	0.66	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Mercury	0.091	0.033	mg/Kg dry	1		SW-846 7471B	11/26/19	11/26/19 18:57	AJL
Nickel	7.2	0.44	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Selenium	ND	4.4	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 1:25	TBC
Silver	ND	0.44	mg/Kg dry	1		SW-846 6010D	11/26/19	12/3/19 1:25	TBC
Thallium	ND	2.2	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc
Vanadium	26	0.88	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 18:53	TBC
Zinc	45	0.88	mg/Kg dry	1		SW-846 6010D	11/26/19	11/27/19 19:33	tbc

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Project Location: Beaver St., Waltham, MA

Sample Description:

Work Order: 19K1403

Date Received: 11/22/2019

Field Sample #: HB-15

Sampled: 11/20/2019 13:00

Sample ID: 19K1403-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.0		% Wt	1		SM 2540G	11/25/19	11/26/19 10:38	adb

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
19K1403-01 [HB-1]	B246947	11/25/19
19K1403-02 [HB-5]	B246947	11/25/19
19K1403-03 [HB-6]	B246947	11/25/19
19K1403-04 [HB-7]	B246947	11/25/19
19K1403-05 [HB-8]	B246947	11/25/19
19K1403-06 [HB-9]	B246947	11/25/19
19K1403-07 [HB-10]	B246947	11/25/19
19K1403-08 [HB-11]	B246947	11/25/19
19K1403-09 [HB-14]	B246947	11/25/19
19K1403-10 [HB-15]	B246947	11/25/19

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19K1403-01 [HB-1]	B247130	1.52	50.0	11/26/19
19K1403-02 [HB-5]	B247130	1.51	50.0	11/26/19
19K1403-03 [HB-6]	B247130	1.54	50.0	11/26/19
19K1403-04 [HB-7]	B247130	1.52	50.0	11/26/19
19K1403-05 [HB-8]	B247130	1.52	50.0	11/26/19
19K1403-06 [HB-9]	B247130	1.54	50.0	11/26/19
19K1403-07 [HB-10]	B247130	1.48	50.0	11/26/19
19K1403-08 [HB-11]	B247130	1.51	50.0	11/26/19
19K1403-09 [HB-14]	B247130	1.50	50.0	11/26/19
19K1403-10 [HB-15]	B247130	1.49	50.0	11/26/19

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19K1403-01 [HB-1]	B247073	0.625	50.0	11/26/19
19K1403-02 [HB-5]	B247073	0.606	50.0	11/26/19
19K1403-03 [HB-6]	B247073	0.622	50.0	11/26/19
19K1403-04 [HB-7]	B247073	0.612	50.0	11/26/19
19K1403-05 [HB-8]	B247073	0.579	50.0	11/26/19
19K1403-06 [HB-9]	B247073	0.600	50.0	11/26/19
19K1403-07 [HB-10]	B247073	0.610	50.0	11/26/19
19K1403-08 [HB-11]	B247073	0.639	50.0	11/26/19
19K1403-09 [HB-14]	B247073	0.607	50.0	11/26/19
19K1403-10 [HB-15]	B247073	0.607	50.0	11/26/19

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19K1403-01 [HB-1]	B246869	30.0	1.00	11/24/19
19K1403-02 [HB-5]	B246869	30.1	1.00	11/24/19
19K1403-03 [HB-6]	B246869	30.6	1.00	11/24/19
19K1403-04 [HB-7]	B246869	30.1	1.00	11/24/19
19K1403-05 [HB-8]	B246869	30.6	1.00	11/24/19
19K1403-06 [HB-9]	B246869	30.3	1.00	11/24/19
19K1403-07 [HB-10]	B246869	30.7	1.00	11/24/19
19K1403-08 [HB-11]	B246869	30.2	1.00	11/24/19
19K1403-09 [HB-14]	B246869	30.4	1.00	11/24/19

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19K1403-10 [HB-15]	B246869	30.3	1.00	11/24/19

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246869 - SW-846 3546										
Blank (B246869-BLK1)				Prepared: 11/24/19 Analyzed: 11/27/19						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-04, V-05, V-35
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Benzo(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246869 - SW-846 3546										
Blank (B246869-BLK1) Prepared: 11/24/19 Analyzed: 11/27/19										
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							V-05
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.51		mg/Kg wet	6.67		82.7	30-130			
Surrogate: Phenol-d6	5.60		mg/Kg wet	6.67		84.1	30-130			
Surrogate: Nitrobenzene-d5	2.58		mg/Kg wet	3.33		77.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.76		mg/Kg wet	3.33		82.9	30-130			
Surrogate: 2,4,6-Tribromophenol	5.84		mg/Kg wet	6.67		87.5	30-130			
Surrogate: p-Terphenyl-d14	3.14		mg/Kg wet	3.33		94.3	30-130			
LCS (B246869-BS1) Prepared: 11/24/19 Analyzed: 11/27/19										
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.7	40-140			
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140			
Acetophenone	1.11	0.34	mg/Kg wet	1.67		66.6	40-140			
Aniline	0.809	0.34	mg/Kg wet	1.67		48.5	10-140			†
Anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzidine	1.85	0.66	mg/Kg wet	1.67		111	40-140			V-04, V-05, V-35
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Benzo(a)pyrene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140			
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Benzo(g,h,i)perylene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
Benzo(k)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140			
Benzoic Acid	0.179	1.0	mg/Kg wet	1.67		10.7 *	30-130			L-04
Bis(2-chloroethoxy)methane	1.11	0.34	mg/Kg wet	1.67		66.6	40-140			
Bis(2-chloroethyl)ether	1.04	0.34	mg/Kg wet	1.67		62.4	40-140			
Bis(2-chloroisopropyl)ether	1.13	0.34	mg/Kg wet	1.67		67.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
4-Bromophenylphenylether	1.17	0.34	mg/Kg wet	1.67		70.3	40-140			
Butylbenzylphthalate	1.23	0.34	mg/Kg wet	1.67		73.6	40-140			
-bazole	1.20	0.17	mg/Kg wet	1.67		72.3	40-140			
-Chloroaniline	0.893	0.66	mg/Kg wet	1.67		53.6	10-140			V-34 †
4-Chloro-3-methylphenol	1.23	0.66	mg/Kg wet	1.67		73.7	30-130			
2-Chloronaphthalene	0.986	0.34	mg/Kg wet	1.67		59.2	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246869 - SW-846 3546										
LCS (B246869-BS1)				Prepared: 11/24/19 Analyzed: 11/27/19						
2-Chlorophenol	1.11	0.34	mg/Kg wet	1.67		66.4	30-130			
4-Chlorophenylphenylether	1.16	0.34	mg/Kg wet	1.67		69.4	40-140			
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Dibenzofuran	1.20	0.34	mg/Kg wet	1.67		71.8	40-140			
Di-n-butylphthalate	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
1,2-Dichlorobenzene	1.02	0.34	mg/Kg wet	1.67		61.1	40-140			
1,3-Dichlorobenzene	0.991	0.34	mg/Kg wet	1.67		59.5	40-140			
1,4-Dichlorobenzene	0.995	0.34	mg/Kg wet	1.67		59.7	40-140			
3,3-Dichlorobenzidine	0.946	0.17	mg/Kg wet	1.67		56.8	20-140			†
2,4-Dichlorophenol	1.13	0.34	mg/Kg wet	1.67		67.6	30-130			
Diethylphthalate	1.16	0.34	mg/Kg wet	1.67		69.8	40-140			
2,4-Dimethylphenol	1.01	0.34	mg/Kg wet	1.67		60.8	30-130			
Dimethylphthalate	1.16	0.34	mg/Kg wet	1.67		69.7	40-140			
4,6-Dinitro-2-methylphenol	1.09	0.34	mg/Kg wet	1.67		65.5	30-130			
2,4-Dinitrophenol	0.601	0.66	mg/Kg wet	1.67		36.1	30-130			
2,4-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		78.1	40-140			
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
Di-n-octylphthalate	1.29	0.34	mg/Kg wet	1.67		77.4	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.24	0.34	mg/Kg wet	1.67		74.1	40-140			
oranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Fluorene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Hexachlorobenzene	1.25	0.34	mg/Kg wet	1.67		75.1	40-140			
Hexachlorobutadiene	0.990	0.34	mg/Kg wet	1.67		59.4	40-140			
Hexachlorocyclopentadiene	0.692	0.34	mg/Kg wet	1.67		41.5	40-140			V-05
Hexachloroethane	1.01	0.34	mg/Kg wet	1.67		60.7	40-140			
Indeno(1,2,3-cd)pyrene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140			
Isophorone	1.16	0.34	mg/Kg wet	1.67		69.8	40-140			
1-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140			
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140			
2-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.9	30-130			
3/4-Methylphenol	1.15	0.34	mg/Kg wet	1.67		69.1	30-130			
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
2-Nitroaniline	1.30	0.34	mg/Kg wet	1.67		77.8	40-140			
3-Nitroaniline	1.21	0.34	mg/Kg wet	1.67		72.7	30-140			†
4-Nitroaniline	1.33	0.34	mg/Kg wet	1.67		79.6	40-140			
Nitrobenzene	1.13	0.34	mg/Kg wet	1.67		67.6	40-140			
2-Nitrophenol	1.26	0.34	mg/Kg wet	1.67		75.9	30-130			
4-Nitrophenol	1.39	0.66	mg/Kg wet	1.67		83.4	30-130			
N-Nitrosodimethylamine	0.944	0.34	mg/Kg wet	1.67		56.7	40-140			
N-Nitrosodiphenylamine/Diphenylamine	1.27	0.34	mg/Kg wet	1.67		76.2	40-140			
N-Nitrosodi-n-propylamine	1.11	0.34	mg/Kg wet	1.67		66.8	40-140			
Pentachloronitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.2	40-140			
Pentachlorophenol	0.791	0.34	mg/Kg wet	1.67		47.4	30-130			V-05
Phenanthrene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140			
Phenol	1.22	0.34	mg/Kg wet	1.67		73.1	30-130			
Pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Pyridine	0.632	0.34	mg/Kg wet	1.67		37.9	30-140			†
4,5-Tetrachlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.5	40-140			
1,2,4-Trichlorobenzene	1.03	0.34	mg/Kg wet	1.67		61.9	40-140			
2,4,5-Trichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.6	30-130			
2,4,6-Trichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246869 - SW-846 3546										
LCS (B246869-BS1)				Prepared: 11/24/19 Analyzed: 11/27/19						
Surrogate: 2-Fluorophenol	4.87		mg/Kg wet	6.67		73.1	30-130			
Surrogate: Phenol-d6	5.00		mg/Kg wet	6.67		75.1	30-130			
Surrogate: Nitrobenzene-d5	2.33		mg/Kg wet	3.33		69.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.47		mg/Kg wet	3.33		74.0	30-130			
Surrogate: 2,4,6-Tribromophenol	6.16		mg/Kg wet	6.67		92.4	30-130			
Surrogate: p-Terphenyl-d14	2.80		mg/Kg wet	3.33		83.9	30-130			
LCS Dup (B246869-BS1)				Prepared: 11/24/19 Analyzed: 11/27/19						
Acenaphthene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140	4.26	30	
Acenaphthylene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	2.26	30	
Acetophenone	1.22	0.34	mg/Kg wet	1.67		73.4	40-140	9.71	30	
Aniline	0.956	0.34	mg/Kg wet	1.67		57.4	10-140	16.7	50	† ‡
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140	2.97	30	
Benzidine	1.92	0.66	mg/Kg wet	1.67		115	40-140	4.03	30	V-04, V-05, V-35
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140	2.87	30	
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	3.33	30	
Benzo(b)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	8.54	30	
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.8	40-140	14.7	30	
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140	7.69	30	
Benzoic Acid	0.168	1.0	mg/Kg wet	1.67		10.1	* 30-130	6.35	50	L-04 ‡
(2-chloroethoxy)methane	1.20	0.34	mg/Kg wet	1.67		72.3	40-140	8.27	30	
1,2-bis(2-chloroethyl)ether	1.16	0.34	mg/Kg wet	1.67		69.7	40-140	11.2	30	
Bis(2-chloroisopropyl)ether	1.26	0.34	mg/Kg wet	1.67		75.4	40-140	10.9	30	
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		75.2	40-140	1.34	30	
4-Bromophenylphenylether	1.26	0.34	mg/Kg wet	1.67		75.7	40-140	7.37	30	
Butylbenzylphthalate	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	2.86	30	
Carbazole	1.22	0.17	mg/Kg wet	1.67		73.4	40-140	1.59	30	
4-Chloroaniline	0.976	0.66	mg/Kg wet	1.67		58.5	10-140	8.81	30	V-34 †
4-Chloro-3-methylphenol	1.17	0.66	mg/Kg wet	1.67		70.1	30-130	5.01	30	
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	7.79	30	
2-Chlorophenol	1.23	0.34	mg/Kg wet	1.67		73.6	30-130	10.3	30	
4-Chlorophenylphenylether	1.16	0.34	mg/Kg wet	1.67		69.5	40-140	0.0576	30	
Chrysene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140	2.08	30	
Dibenz(a,h)anthracene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	8.55	30	
Dibenzofuran	1.21	0.34	mg/Kg wet	1.67		72.3	40-140	0.777	30	
Di-n-butylphthalate	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	2.13	30	
1,2-Dichlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	11.1	30	
1,3-Dichlorobenzene	1.10	0.34	mg/Kg wet	1.67		66.0	40-140	10.4	30	
1,4-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5	40-140	10.8	30	
3,3-Dichlorobenzidine	1.07	0.17	mg/Kg wet	1.67		64.1	20-140	12.1	50	† ‡
2,4-Dichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130	3.92	30	
Diethylphthalate	1.15	0.34	mg/Kg wet	1.67		68.8	40-140	1.36	30	
2,4-Dimethylphenol	1.07	0.34	mg/Kg wet	1.67		63.9	30-130	4.94	30	
Dimethylphthalate	1.19	0.34	mg/Kg wet	1.67		71.4	40-140	2.47	30	
4,6-Dinitro-2-methylphenol	1.09	0.34	mg/Kg wet	1.67		65.5	30-130	0.0916	30	
2,4-Dinitrophenol	0.557	0.66	mg/Kg wet	1.67		33.4	30-130	7.71	30	
2,4-Dinitrotoluene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140	4.34	30	
2,6-Dinitrotoluene	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	0.653	30	
1-octylphenylphthalate	1.54	0.34	mg/Kg wet	1.67		92.4	40-140	17.6	30	
1,1'-Diphenylhydrazine/Azobenzene	1.35	0.34	mg/Kg wet	1.67		80.8	40-140	8.63	30	
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	1.85	30	
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	1.91	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246869 - SW-846 3546										
LCS Dup (B246869-BSD1) Prepared: 11/24/19 Analyzed: 11/27/19										
Hexachlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.9	40-140	4.86	30	
Hexachlorobutadiene	1.13	0.34	mg/Kg wet	1.67		67.6	40-140	12.9	30	
Hexachlorocyclopentadiene	0.678	0.34	mg/Kg wet	1.67		40.7	40-140	1.99	30	V-05
Hexachloroethane	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	8.96	30	
Indeno(1,2,3-cd)pyrene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140	9.48	30	
Isophorone	1.24	0.34	mg/Kg wet	1.67		74.7	40-140	6.67	30	
1-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140	4.05	30	
2-Methylnaphthalene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	4.69	30	
2-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130	7.79	30	
3/4-Methylphenol	1.21	0.34	mg/Kg wet	1.67		72.4	30-130	4.66	30	
Naphthalene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	8.92	30	
2-Nitroaniline	1.28	0.34	mg/Kg wet	1.67		76.7	40-140	1.50	30	
3-Nitroaniline	1.20	0.34	mg/Kg wet	1.67		72.3	30-140	0.607	30	†
4-Nitroaniline	1.23	0.34	mg/Kg wet	1.67		74.1	40-140	7.19	30	
Nitrobenzene	1.24	0.34	mg/Kg wet	1.67		74.1	40-140	9.29	30	
2-Nitrophenol	1.39	0.34	mg/Kg wet	1.67		83.7	30-130	9.75	30	
4-Nitrophenol	1.26	0.66	mg/Kg wet	1.67		75.8	30-130	9.53	50	‡
N-Nitrosodimethylamine	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	9.71	30	
N-Nitrosodiphenylamine/Diphenylamine	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	6.58	30	
N-Nitrosodi-n-propylamine	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	8.15	30	
1,2,3-Trichloronitrobenzene	1.30	0.34	mg/Kg wet	1.67		78.1	40-140	1.16	30	
1,2,4-Trichlorophenol	0.770	0.34	mg/Kg wet	1.67		46.2	30-130	2.65	30	V-05
Phenanthrene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	2.39	30	
Phenol	1.32	0.34	mg/Kg wet	1.67		79.1	30-130	7.99	30	
Pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	3.41	30	
Pyridine	0.687	0.34	mg/Kg wet	1.67		41.2	30-140	8.34	30	†
1,2,4,5-Tetrachlorobenzene	1.20	0.34	mg/Kg wet	1.67		72.2	40-140	14.3	30	
1,2,4-Trichlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.6	40-140	11.8	30	
2,4,5-Trichlorophenol	1.29	0.34	mg/Kg wet	1.67		77.3	30-130	2.12	30	
2,4,6-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.2	30-130	5.43	30	
Surrogate: 2-Fluorophenol	5.38		mg/Kg wet	6.67		80.7	30-130			
Surrogate: Phenol-d6	5.28		mg/Kg wet	6.67		79.3	30-130			
Surrogate: Nitrobenzene-d5	2.52		mg/Kg wet	3.33		75.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.68		mg/Kg wet	3.33		80.6	30-130			
Surrogate: 2,4,6-Tribromophenol	5.69		mg/Kg wet	6.67		85.4	30-130			
Surrogate: p-Terphenyl-d14	2.84		mg/Kg wet	3.33		85.1	30-130			
Matrix Spike (B246869-MS1) Source: 19K1403-02 Prepared: 11/24/19 Analyzed: 11/27/19										
Acenaphthene	1.33	0.21	mg/Kg dry	2.08	ND	64.0	40-140			
Acenaphthylene	1.40	0.21	mg/Kg dry	2.08	ND	67.4	40-140			
Acetophenone	1.46	0.42	mg/Kg dry	2.08	ND	70.2	40-140			
Aniline	0.971	0.42	mg/Kg dry	2.08	ND	46.8	40-140			
Anthracene	1.43	0.21	mg/Kg dry	2.08	ND	68.8	40-140			
Benidine	0.137	0.82	mg/Kg dry	2.08	ND	6.58	* 40-140			MS-09, V-04, V-05, V-35
Benzo(a)anthracene	1.41	0.21	mg/Kg dry	2.08	ND	67.7	40-140			
Benzo(a)pyrene	1.30	0.21	mg/Kg dry	2.08	ND	62.7	40-140			
Benzo(b)fluoranthene	1.36	0.21	mg/Kg dry	2.08	ND	65.4	40-140			
Benzo(g,h,i)perylene	1.37	0.21	mg/Kg dry	2.08	ND	66.1	40-140			
Benzo(k)fluoranthene	1.39	0.21	mg/Kg dry	2.08	ND	66.7	40-140			
Benzoic Acid	0.348	1.2	mg/Kg dry	2.08	ND	16.8	* 40-140			MS-09
Bis(2-chloroethoxy)methane	1.39	0.42	mg/Kg dry	2.08	ND	67.1	40-140			
Bis(2-chloroethyl)ether	1.41	0.42	mg/Kg dry	2.08	ND	67.9	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246869 - SW-846 3546										
Matrix Spike (B246869-MS1)	Source: 19K1403-02			Prepared: 11/24/19 Analyzed: 11/27/19						
Bis(2-chloroisopropyl)ether	1.49	0.42	mg/Kg dry	2.08	ND	71.7	40-140			
Bis(2-Ethylhexyl)phthalate	1.62	0.42	mg/Kg dry	2.08	0.357	60.8	40-140			
4-Bromophenylphenylether	1.40	0.42	mg/Kg dry	2.08	ND	67.2	40-140			
Butylbenzylphthalate	1.47	0.42	mg/Kg dry	2.08	0.283	57.4	40-140			
Carbazole	1.38	0.21	mg/Kg dry	2.08	ND	66.6	40-140			
4-Chloroaniline	0.985	0.82	mg/Kg dry	2.08	ND	47.5	40-140			V-34
4-Chloro-3-methylphenol	1.39	0.82	mg/Kg dry	2.08	ND	66.9	30-130			
2-Chloronaphthalene	1.24	0.42	mg/Kg dry	2.08	ND	59.7	40-140			
2-Chlorophenol	1.43	0.42	mg/Kg dry	2.08	ND	68.7	30-130			
4-Chlorophenylphenylether	1.35	0.42	mg/Kg dry	2.08	ND	65.1	40-140			
Chrysene	1.38	0.21	mg/Kg dry	2.08	ND	66.6	40-140			
Dibenz(a,h)anthracene	1.32	0.21	mg/Kg dry	2.08	ND	63.8	40-140			
Dibenzofuran	1.40	0.42	mg/Kg dry	2.08	ND	67.7	40-140			
Di-n-butylphthalate	1.43	0.42	mg/Kg dry	2.08	ND	68.7	40-140			
1,2-Dichlorobenzene	1.35	0.42	mg/Kg dry	2.08	ND	65.2	40-140			
1,3-Dichlorobenzene	1.31	0.42	mg/Kg dry	2.08	ND	63.2	40-140			
1,4-Dichlorobenzene	1.33	0.42	mg/Kg dry	2.08	ND	64.2	40-140			
3,3-Dichlorobenzidine	0.956	0.21	mg/Kg dry	2.08	ND	46.0	40-140			
2,4-Dichlorophenol	1.25	0.42	mg/Kg dry	2.08	ND	60.0	30-130			
Diethylphthalate	1.32	0.42	mg/Kg dry	2.08	ND	63.6	40-140			
-Dimethylphenol	1.10	0.42	mg/Kg dry	2.08	ND	52.9	30-130			
imethylphthalate	1.38	0.42	mg/Kg dry	2.08	ND	66.4	40-140			
4,6-Dinitro-2-methylphenol	1.44	0.42	mg/Kg dry	2.08	ND	69.4	30-130			
2,4-Dinitrophenol	1.12	0.82	mg/Kg dry	2.08	ND	53.8	30-130			
2,4-Dinitrotoluene	1.45	0.42	mg/Kg dry	2.08	ND	69.8	40-140			
2,6-Dinitrotoluene	1.56	0.42	mg/Kg dry	2.08	ND	75.2	40-140			
Di-n-octylphthalate	1.63	0.42	mg/Kg dry	2.08	ND	78.3	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.49	0.42	mg/Kg dry	2.08	ND	71.8	40-140			
Fluoranthene	1.50	0.21	mg/Kg dry	2.08	0.154	64.6	40-140			
Fluorene	1.38	0.21	mg/Kg dry	2.08	ND	66.2	40-140			
Hexachlorobenzene	1.46	0.42	mg/Kg dry	2.08	ND	70.1	40-140			
Hexachlorobutadiene	1.29	0.42	mg/Kg dry	2.08	ND	62.2	40-140			
Hexachlorocyclopentadiene	0.821	0.42	mg/Kg dry	2.08	ND	39.6	30-130			V-05
Hexachloroethane	1.32	0.42	mg/Kg dry	2.08	ND	63.4	40-140			
Indeno(1,2,3-cd)pyrene	1.45	0.21	mg/Kg dry	2.08	ND	69.6	40-140			
Isophorone	1.46	0.42	mg/Kg dry	2.08	ND	70.2	40-140			
1-Methylnaphthalene	1.24	0.21	mg/Kg dry	2.08	ND	59.9	40-140			
2-Methylnaphthalene	1.51	0.21	mg/Kg dry	2.08	ND	72.5	40-140			
2-Methylphenol	1.31	0.42	mg/Kg dry	2.08	ND	63.0	30-130			
3/4-Methylphenol	1.39	0.42	mg/Kg dry	2.08	ND	67.0	30-130			
Naphthalene	1.41	0.21	mg/Kg dry	2.08	ND	68.0	40-140			
2-Nitroaniline	1.49	0.42	mg/Kg dry	2.08	ND	71.8	40-140			
3-Nitroaniline	1.29	0.42	mg/Kg dry	2.08	ND	62.3	40-140			
4-Nitroaniline	1.33	0.42	mg/Kg dry	2.08	ND	63.8	40-140			
Nitrobenzene	1.46	0.42	mg/Kg dry	2.08	ND	70.3	40-140			
2-Nitrophenol	1.60	0.42	mg/Kg dry	2.08	ND	77.3	30-130			
4-Nitrophenol	1.43	0.82	mg/Kg dry	2.08	ND	69.1	30-130			
N-Nitrosodimethylamine	1.24	0.42	mg/Kg dry	2.08	ND	59.7	40-140			
Nitrosodiphenylamine/Diphenylamine	1.48	0.42	mg/Kg dry	2.08	ND	71.2	40-140			
Nitrosodi-n-propylamine	1.45	0.42	mg/Kg dry	2.08	ND	70.0	40-140			
Pentachloronitrobenzene	1.49	0.42	mg/Kg dry	2.08	ND	71.5	40-140			
Pentachlorophenol	0.885	0.42	mg/Kg dry	2.08	ND	42.6	30-130			V-05

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246869 - SW-846 3546										
Matrix Spike (B246869-MS1)										
Source: 19K1403-02			Prepared: 11/24/19 Analyzed: 11/27/19							
Phenanthrene	1.46	0.21	mg/Kg dry	2.08	ND	70.4	40-140			
Phenol	1.53	0.42	mg/Kg dry	2.08	ND	73.6	30-130			
Pyrene	1.53	0.21	mg/Kg dry	2.08	0.176	65.1	40-140			
Pyridine	0.782	0.42	mg/Kg dry	2.08	ND	37.7	* 40-140			MS-09
1,2,4,5-Tetrachlorobenzene	1.37	0.42	mg/Kg dry	2.08	ND	65.8	40-140			
1,2,4-Trichlorobenzene	1.34	0.42	mg/Kg dry	2.08	ND	64.6	40-140			
2,4,5-Trichlorophenol	1.43	0.42	mg/Kg dry	2.08	ND	68.9	30-130			
2,4,6-Trichlorophenol	1.38	0.42	mg/Kg dry	2.08	ND	66.3	30-130			
Surrogate: 2-Fluorophenol	6.11		mg/Kg dry	8.30		73.6	30-130			
Surrogate: Phenol-d6	6.26		mg/Kg dry	8.30		75.3	30-130			
Surrogate: Nitrobenzene-d5	2.97		mg/Kg dry	4.15		71.4	30-130			
Surrogate: 2-Fluorobiphenyl	3.09		mg/Kg dry	4.15		74.4	30-130			
Surrogate: 2,4,6-Tribromophenol	6.31		mg/Kg dry	8.30		76.0	30-130			
Surrogate: p-Terphenyl-d14	3.30		mg/Kg dry	4.15		79.4	30-130			
Matrix Spike Dup (B246869-MSD1)										
Source: 19K1403-02			Prepared: 11/24/19 Analyzed: 11/27/19							
Acenaphthene	1.36	0.21	mg/Kg dry	2.08	ND	65.6	40-140	2.41	30	
Acenaphthylene	1.44	0.21	mg/Kg dry	2.08	ND	69.3	40-140	2.72	30	
Acetophenone	1.46	0.42	mg/Kg dry	2.08	ND	70.3	40-140	0.114	30	
Aniline	0.849	0.42	mg/Kg dry	2.08	ND	40.9	40-140	13.4	30	
Anthracene	1.48	0.21	mg/Kg dry	2.08	ND	71.2	40-140	3.40	30	
Benzenzidine	0.0855	0.82	mg/Kg dry	2.08	ND	4.12	* 40-140		30	V-35, MS-09, V-04, V-05
Benzo(a)anthracene	1.47	0.21	mg/Kg dry	2.08	ND	70.6	40-140	4.28	30	
Benzo(a)pyrene	1.40	0.21	mg/Kg dry	2.08	ND	67.2	40-140	6.89	30	
Benzo(b)fluoranthene	1.40	0.21	mg/Kg dry	2.08	ND	67.3	40-140	2.92	30	
Benzo(g,h,i)perylene	1.55	0.21	mg/Kg dry	2.08	ND	74.8	40-140	12.3	30	
Benzo(k)fluoranthene	1.39	0.21	mg/Kg dry	2.08	ND	67.1	40-140	0.538	30	
Benzoic Acid	0.414	1.2	mg/Kg dry	2.08	ND	19.9	* 40-140		30	MS-09
Bis(2-chloroethoxy)methane	1.44	0.42	mg/Kg dry	2.08	ND	69.1	40-140	2.97	30	
Bis(2-chloroethyl)ether	1.41	0.42	mg/Kg dry	2.08	ND	67.8	40-140	0.265	30	
Bis(2-chloroisopropyl)ether	1.51	0.42	mg/Kg dry	2.08	ND	72.6	40-140	1.22	30	
Bis(2-Ethylhexyl)phthalate	1.74	0.42	mg/Kg dry	2.08	0.357	66.6	40-140	7.19	30	
4-Bromophenylphenylether	1.40	0.42	mg/Kg dry	2.08	ND	67.7	40-140	0.623	30	
Butylbenzylphthalate	1.54	0.42	mg/Kg dry	2.08	0.283	60.7	40-140	4.49	30	
Carbazole	1.41	0.21	mg/Kg dry	2.08	ND	68.1	40-140	2.17	30	
4-Chloroaniline	0.922	0.82	mg/Kg dry	2.08	ND	44.4	40-140	6.62	30	V-34
4-Chloro-3-methylphenol	1.41	0.82	mg/Kg dry	2.08	ND	67.7	30-130	1.28	30	
2-Chloronaphthalene	1.26	0.42	mg/Kg dry	2.08	ND	60.8	40-140	1.86	30	
2-Chlorophenol	1.43	0.42	mg/Kg dry	2.08	ND	69.0	30-130	0.494	30	
4-Chlorophenylphenylether	1.37	0.42	mg/Kg dry	2.08	ND	66.0	40-140	1.37	30	
Chrysene	1.44	0.21	mg/Kg dry	2.08	ND	69.5	40-140	4.17	30	
Dibenz(a,h)anthracene	1.42	0.21	mg/Kg dry	2.08	ND	68.4	40-140	7.05	30	
Dibenzofuran	1.44	0.42	mg/Kg dry	2.08	ND	69.2	40-140	2.28	30	
Di-n-butylphthalate	1.46	0.42	mg/Kg dry	2.08	ND	70.3	40-140	2.22	30	
1,2-Dichlorobenzene	1.36	0.42	mg/Kg dry	2.08	ND	65.6	40-140	0.520	30	
1,3-Dichlorobenzene	1.31	0.42	mg/Kg dry	2.08	ND	63.3	40-140	0.0633	30	
1,4-Dichlorobenzene	1.33	0.42	mg/Kg dry	2.08	ND	63.9	40-140	0.437	30	
1,3-Dichlorobenzidine	0.882	0.21	mg/Kg dry	2.08	ND	42.5	40-140	8.09	30	
Dichlorophenol	1.28	0.42	mg/Kg dry	2.08	ND	61.5	30-130	2.40	30	
Diethylphthalate	1.36	0.42	mg/Kg dry	2.08	ND	65.6	40-140	3.13	30	
2,4-Dimethylphenol	1.12	0.42	mg/Kg dry	2.08	ND	54.1	30-130	2.24	30	
Dimethylphthalate	1.39	0.42	mg/Kg dry	2.08	ND	67.2	40-140	1.23	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246869 - SW-846 3546										
Matrix Spike Dup (B246869-MSD1) Source: 19K1403-02 Prepared: 11/24/19 Analyzed: 11/27/19										
4,6-Dinitro-2-methylphenol	1.45	0.42	mg/Kg dry	2.08	ND	69.7	30-130	0.402	30	
2,4-Dinitrophenol	1.12	0.82	mg/Kg dry	2.08	ND	53.9	30-130	0.334	30	
2,4-Dinitrotoluene	1.50	0.42	mg/Kg dry	2.08	ND	72.4	40-140	3.71	30	
2,6-Dinitrotoluene	1.62	0.42	mg/Kg dry	2.08	ND	77.8	40-140	3.45	30	
Di-n-octylphthalate	1.63	0.42	mg/Kg dry	2.08	ND	78.5	40-140	0.255	30	
1,2-Diphenylhydrazine/Azobenzene	1.50	0.42	mg/Kg dry	2.08	ND	72.1	40-140	0.473	30	
Fluoranthene	1.57	0.21	mg/Kg dry	2.08	0.154	68.0	40-140	4.64	30	
Fluorene	1.42	0.21	mg/Kg dry	2.08	ND	68.2	40-140	2.89	30	
Hexachlorobenzene	1.46	0.42	mg/Kg dry	2.08	ND	70.4	40-140	0.370	30	
Hexachlorobutadiene	1.31	0.42	mg/Kg dry	2.08	ND	62.9	40-140	1.12	30	
Hexachlorocyclopentadiene	0.820	0.42	mg/Kg dry	2.08	ND	39.5	30-130	0.202	30	V-05
Hexachloroethane	1.33	0.42	mg/Kg dry	2.08	ND	63.9	40-140	0.880	30	
Indeno(1,2,3-cd)pyrene	1.63	0.21	mg/Kg dry	2.08	ND	78.3	40-140	11.7	30	
Isophorone	1.50	0.42	mg/Kg dry	2.08	ND	72.3	40-140	2.92	30	
1-Methylnaphthalene	1.28	0.21	mg/Kg dry	2.08	ND	61.6	40-140	2.76	30	
2-Methylnaphthalene	1.55	0.21	mg/Kg dry	2.08	ND	74.7	40-140	2.88	30	
2-Methylphenol	1.33	0.42	mg/Kg dry	2.08	ND	64.1	30-130	1.67	30	
3/4-Methylphenol	1.40	0.42	mg/Kg dry	2.08	ND	67.5	30-130	0.654	30	
Naphthalene	1.45	0.21	mg/Kg dry	2.08	ND	69.8	40-140	2.58	30	
2-Nitroaniline	1.53	0.42	mg/Kg dry	2.08	ND	73.6	40-140	2.53	30	
4-Nitroaniline	1.30	0.42	mg/Kg dry	2.08	ND	62.8	40-140	0.831	30	
3-Nitroaniline	1.36	0.42	mg/Kg dry	2.08	ND	65.6	40-140	2.75	30	
Nitrobenzene	1.49	0.42	mg/Kg dry	2.08	ND	71.6	40-140	1.89	30	
2-Nitrophenol	1.65	0.42	mg/Kg dry	2.08	ND	79.5	30-130	2.78	30	
4-Nitrophenol	1.50	0.82	mg/Kg dry	2.08	ND	72.3	30-130	4.53	30	
N-Nitrosodimethylamine	1.27	0.42	mg/Kg dry	2.08	ND	61.0	40-140	2.16	30	
N-Nitrosodiphenylamine/Diphenylamine	1.51	0.42	mg/Kg dry	2.08	ND	72.7	40-140	2.14	30	
N-Nitrosodi-n-propylamine	1.46	0.42	mg/Kg dry	2.08	ND	70.3	40-140	0.542	30	
Pentachloronitrobenzene	1.47	0.42	mg/Kg dry	2.08	ND	71.0	40-140	0.730	30	
Pentachlorophenol	0.876	0.42	mg/Kg dry	2.08	ND	42.2	30-130	0.990	30	V-05
Phenanthrene	1.52	0.21	mg/Kg dry	2.08	ND	73.1	40-140	3.65	30	
Phenol	1.53	0.42	mg/Kg dry	2.08	ND	73.5	30-130	0.163	30	
Pyrene	1.65	0.21	mg/Kg dry	2.08	0.176	70.9	40-140	7.64	30	
Pyridine	0.778	0.42	mg/Kg dry	2.08	ND	37.5	40-140	0.532	30	MS-09
1,2,4,5-Tetrachlorobenzene	1.38	0.42	mg/Kg dry	2.08	ND	66.5	40-140	1.15	30	
1,2,4-Trichlorobenzene	1.37	0.42	mg/Kg dry	2.08	ND	65.9	40-140	1.93	30	
2,4,5-Trichlorophenol	1.45	0.42	mg/Kg dry	2.08	ND	69.7	30-130	1.10	30	
2,4,6-Trichlorophenol	1.39	0.42	mg/Kg dry	2.08	ND	67.0	30-130	0.930	30	
Surrogate: 2-Fluorophenol	6.09		mg/Kg dry	8.30		73.3	30-130			
Surrogate: Phenol-d6	6.22		mg/Kg dry	8.30		74.9	30-130			
Surrogate: Nitrobenzene-d5	3.06		mg/Kg dry	4.15		73.8	30-130			
Surrogate: 2-Fluorobiphenyl	3.13		mg/Kg dry	4.15		75.5	30-130			
Surrogate: 2,4,6-Tribromophenol	6.47		mg/Kg dry	8.30		77.9	30-130			
Surrogate: p-Terphenyl-d14	3.49		mg/Kg dry	4.15		84.0	30-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B247073 - SW-846 7471										
Blank (B247073-BLK1)				Prepared & Analyzed: 11/26/19						
Mercury	ND	0.025	mg/Kg wet							
LCS (B247073-BS1)				Prepared & Analyzed: 11/26/19						
Mercury	2.36	0.38	mg/Kg wet	2.93		80.4	71.3-128.7			
LCS Dup (B247073-BSD1)				Prepared & Analyzed: 11/26/19						
Mercury	2.70	0.38	mg/Kg wet	2.93		92.0	71.3-128.7	13.5	20	
Batch B247130 - SW-846 3050B										
Blank (B247130-BLK1)				Prepared: 11/26/19 Analyzed: 11/27/19						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B247130-BS1)				Prepared: 11/26/19 Analyzed: 11/27/19						
Antimony	106	5.0	mg/Kg wet	147		72.0	6.3-208			
Arsenic	129	5.0	mg/Kg wet	143		89.9	82.4-116.8			
Barium	420	5.0	mg/Kg wet	415		101	81.7-118.5			
Beryllium	181	0.50	mg/Kg wet	179		101	82.6-116.8			
Cadmium	56.2	0.50	mg/Kg wet	56.2		100	82.2-117.5			
Chromium	94.8	0.99	mg/Kg wet	101		93.8	82-118.2			
Lead	117	1.5	mg/Kg wet	125		93.9	82.3-117.1			
Nickel	111	0.99	mg/Kg wet	108		103	82.6-117.4			
Selenium	69.4	9.9	mg/Kg wet	77.9		89.1	79.3-120.7			
Silver	36.6	0.99	mg/Kg wet	34.3		107	79.3-120.7			
Thallium	118	5.0	mg/Kg wet	113		105	80.5-119.1			
Vanadium	70.4	2.0	mg/Kg wet	83.7		84.2	78.6-120.8			
Zinc	228	2.0	mg/Kg wet	240		95.1	80.3-119.4			
LCS Dup (B247130-BSD1)				Prepared: 11/26/19 Analyzed: 11/27/19						
Antimony	96.5	4.7	mg/Kg wet	147		65.6	6.3-208	9.27	30	
Arsenic	117	4.7	mg/Kg wet	143		81.8	* 82.4-116.8	9.50	30	L-07
Barium	384	4.7	mg/Kg wet	415		92.5	81.7-118.5	8.86	20	
Beryllium	167	0.47	mg/Kg wet	179		93.4	82.6-116.8	7.87	30	
Cadmium	50.9	0.47	mg/Kg wet	56.2		90.5	82.2-117.5	9.98	20	
Chromium	86.2	0.94	mg/Kg wet	101		85.4	82-118.2	9.41	30	
Lead	106	1.4	mg/Kg wet	125		85.0	82.3-117.1	9.99	30	
Nickel	99.9	0.94	mg/Kg wet	108		92.5	82.6-117.4	10.5	30	
Selenium	64.1	9.4	mg/Kg wet	77.9		82.3	79.3-120.7	7.93	30	
Silver	33.2	0.94	mg/Kg wet	34.3		96.8	79.3-120.7	9.81	30	
Thallium	111	4.7	mg/Kg wet	113		97.9	80.5-119.1	6.69	30	
Vanadium	64.0	1.9	mg/Kg wet	83.7		76.5	* 78.6-120.8	9.56	30	L-07
Zinc	206	1.9	mg/Kg wet	240		85.6	80.3-119.4	10.4	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B247130 - SW-846 3050B										
MRL Check (B247130-MRL1)					Prepared: 11/26/19 Analyzed: 11/27/19					
Lead	0.471	0.50	mg/Kg wet	0.500		94.2	80-120			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B246947 - % Solids										
Duplicate (B246947-DUP1)	Source: 19K1403-01		Prepared: 11/25/19 Analyzed: 11/26/19							
% Solids	59.0		% Wt		66.3			11.6	20	
Duplicate (B246947-DUP2)	Source: 19K1403-02		Prepared: 11/25/19 Analyzed: 11/26/19							
% Solids	79.5		% Wt		80.3			1.03	20	
Duplicate (B246947-DUP3)	Source: 19K1403-03		Prepared: 11/25/19 Analyzed: 11/26/19							
% Solids	53.9		% Wt		55.9			3.51	20	
Duplicate (B246947-DUP4)	Source: 19K1403-04		Prepared: 11/25/19 Analyzed: 11/26/19							
% Solids	52.1		% Wt		53.1			1.88	20	
Duplicate (B246947-DUP5)	Source: 19K1403-05		Prepared: 11/25/19 Analyzed: 11/26/19							
% Solids	44.7		% Wt		45.7			2.12	20	
Duplicate (B246947-DUP6)	Source: 19K1403-06		Prepared: 11/25/19 Analyzed: 11/26/19							
% Solids	40.3		% Wt		42.7			5.74	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Soil</i>	
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NY,NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
<i>-846 8270D-E in Water</i>	
Acenaphthene	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

ANALYSIS REQUESTED

Requested Turnaround Time		Requested Turnaround Time	
7-7 DAY	<input checked="" type="checkbox"/>	10-Day	<input type="checkbox"/>
PFAS 10-Day (std)	<input type="checkbox"/>	Due Date:	
Push Approval Required		Push Approval Required	
1-Day	<input type="checkbox"/>	3-Day	<input type="checkbox"/>
2-Day	<input type="checkbox"/>	4-Day	<input type="checkbox"/>
Field Filtered		Field Filtered	
Lab to Filter		Lab to Filter	
Data Delivery		Data Delivery	
Format:	PDF	Format:	EXCEL
Other:		Other:	both

Fax: 413-525-6405
 Email: info@contestlabs.com
 CDW CONSULTANTS INC
 Address: 6 HYURON DRIVE NATICK MA
 Phone: 508 875 2457
 UMass WALTHAM
 Project Location: BEAVER ST WALTHAM MA
 Project Number: 1830.10
 Project Manager: ALAN SUNDBQUIST

Invoice Recipient:		Sampled By:		Client Sample ID / Description		Beginning Date/Time	Ending Date/Time	Comp Grade	Auxiliary Code	Con. Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCLOSURE
Con.-Test Quote Name/Number:		ALAN SUNDQUIST/MIKE O'BRIEN		HB-1	01	11-19-19	1000	COMP	S	U	1				
Invoice Recipient:		ASUNDQUIST COW CONSULTANTS, COA		HB-5	02	↓	1200								
Sampled By:		MOBIL/ENR COW CONSULTANTS, COA		HB-6	03	11-20-19	0830								
Con.-Test Quote Name/Number:				HB-7	04		0900								
Invoice Recipient:				HB-8	05		0930								
Sampled By:				HB-9	06		1000								
Con.-Test Quote Name/Number:				HB-10	07		1030								
Invoice Recipient:				HB-11	08		1100								
Sampled By:				HB-14	09		1200								
Con.-Test Quote Name/Number:				HB-15	10		1300								

Client Comments:		Special Requirements					
Date/Time:		MA MCP	MCP Certification Form	CT RCP	RCP Certification Form	MA State DW	PWSID #
Relinquished by: (signature)	11-22-19						
Received by: (signature)	11-22-19 10:55						
Relinquished by: (signature)	11-22-19 4:00						
Received by: (signature)	11-22-19 1:00						
Relinquished by: (signature)	11-22-19						
Received by: (signature)							
Relinquished by: (signature)							
Received by: (signature)							

Disclaimer: Con-Test Ltd Chain of Custody is a legal document that analyses the laboratory test values your partners

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False

Client CDW Consultants

Received By SA Date 11/22 Time 11000

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 2.1
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F
Proper Media/Containers Used? FSA-T Is splitting samples required? F
Were trip blanks received? F On COC? F

o all samples have the proper pH? Acid NA Base NA

Vials	#	Containers	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb. <u>10</u>
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

